

# Evaluation of Earthmoving Technology



- **Objective**

Determine the requirements for an enhanced earthmoving system that will meet contingency airfield construction efficiency goals by evaluating available systems under realistic airfield construction conditions.

- **Scope**

Investigate mature products that incorporate GPS and/or laser technology to provide survey/grade control during airfield construction projects.



# Trimble's Site Vision GPS Masarih Island, Oman

Airfield Reconstruction Project conducted by 819<sup>th</sup> RED HORSE

- Survey and Grade Control accomplished solely by GPS
  - ▶ *Real Time Kinematic (RTK) GPS using Base Station*
  - ▶ *Motor Grader equipped with Trimble system*
  - ▶ *System provides on-board display as well as autonomous blade control*





- Project will be used to evaluate the efficiency of the Trimble system
- Collected data will also be used to evaluate the effectiveness of the new rapid design procedure when using remote (satellite) elevation data

